APRIL/MAY 2024

CBT31/FBT31 — MICROBIOLOGY

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Who discovered the vaccines for smallpox?
2. Compare the features Archabacteria and Eubacteria.
3. Recall whether algae has Chlorophyll or not.
4. Summarize about slime.
5. What are autotrophs?
6. Outline the nutritional requirements of microorganism.
7. What is desiccation?
8. Explain the term phenol coefficient.
9. What is SCP?
10. Outline the organisms involved in food spoilage.

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SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Explain Francesco Redi's experiment with maggots.

Or

(b) Examine about the structure of eukaryotes.

12. (a) Outline the principle and uses of micrometry.

Or

(b) Distinguish between gram positive and gram negative bacteria.

13. (a) Select differential media and explain.

Or

(b) Analyse the techniques using for preserving microbes.

14. (a) Identify the various chemical agents involved in sterilization process.

Or

(b) Discuss the experiment of procedure for preparation Agar plate.

15. (a) Identify and list the causes and symptoms of Tuberculosis.

Or

(b) Analyze about any two common fungal skin diseases.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Appraise about the history of microbiology.

17. Explain the parts of microscope with a neatly labelled diagram.

18. Assess the methods of enumeration of microorganisms.

19. Discuss the antimicrobial chemotherapy evaluation techniques.

20. Discuss the cause, pathogenesis and symptoms of typhoid.

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